

Professional Summary

Data professional with experience in analytics, business intelligence, and clinical engineering. M.Sc. in Neuroengineering and Ph.D.-level training in Biomedical Engineering. Delivers robust data models, indicators, and dashboards, translating product and user-activity data into decision-grade insights. Strong background in artificial intelligence, predictive modeling, and natural language processing.

Experience

- Oct 2023 – **Temporary Lecturer, IFRN** — *Federal Institute of Rio Grande do Norte, Ceará-Mirim, RN*
 - Present
 - Taught multiple courses in Biomedical Equipment and biological signal acquisition.
 - Applied Python libraries (NumPy, Pandas, Matplotlib, SciPy, statsmodels) to process and analyze physiological time series data with students.
- Aug 2023 – **Data Science Specialist, Talent Academy, Brazil** (remote/onsite)
 - May 2025
 - Focused on development of new technologies and applied AI solutions in HR analytics.
 - Led a project on resume–job description matching using NLP, achieving >96% accuracy.
 - Built a predictive performance model (90% accuracy) using XGBoost, with interpretability through SHAP values.
- Oct 2021 – **Senior Data Analyst, Talent Academy, São Paulo, SP**
 - Aug 2023
 - Designed and deployed dashboards for web platforms, supporting strategic decision-making.
 - Worked with Power BI, Looker, and SQL databases; used Python libraries (NumPy, Pandas, Matplotlib, Seaborn) to generate insights from HR datasets.
- Mar 2021 – **Innovation & Technology Supervisor, Orbis Engenharia Clínica, Goiânia, GO**
 - Oct 2021
 - Acted as intelligence hub of the engineering division, mapping contract performance.
 - Developed dashboards (mainly Power BI) with API integrations to monitor operations and KPIs.
- Nov 2019 – **Researcher, LAIS / HUOL / UFRN, Natal, RN**
 - Mar 2021
 - Worked on diverse laboratory projects; main focus on signal processing and computer vision.
 - Applied Python (signal libraries, NumPy, SciPy) and OpenCV for biomedical data and image analysis.
- Jun 2019 – **Clinical Engineering Coordinator, Comprehense Brasil, Fortaleza, CE**
 - Oct 2019
 - Coordinated clinical engineering activities and optimized operational performance.
- Jan 2015 – **Research Assistant, LAIS / HUOL / UFRN, Natal, RN**
 - Dec 2016
 - Worked with biomedical signal processing using Python (NumPy, SciPy, Matplotlib).

Education

- 2020 – **Ph.D. (in progress), Biomedical/Medical Engineering, Federal University of Uberlândia (UFU),**
Present Uberlândia, MG
 - Research focus: computational simulation and prototyping of hyperelastic actuators for assistive and rehabilitation devices.
- 2020 – 2022 **Postgraduate Degree, Analytics & Business Intelligence, Pontifical Catholic University of Minas Gerais (PUC Minas), Brazil**
 - Developed a performance study with client data to predict turnover; designed decision-support dashboards in Power BI.
- 2017 – 2019 **M.Sc., Neuroengineering, Edmond & Lily Safra International Institute of Neuroscience (IIN-ELS),**
Natal, RN
 - Research on computer vision and embedded systems for hospital bed automation of bedridden patients, using Python and hardware integration.
- 2017 – 2019 **Postgraduate Degree, Clinical Engineering, Faculdade de Tecnologia de Curitiba, Brazil**
 - Implemented a temperature and humidity monitoring system for medical equipment rooms.

- 2015 – 2017 **Postgraduate Degree, Health Informatics**, *Federal University of Rio Grande do Norte (UFRN)*, Natal, RN
 ○ Designed and deployed a monitoring system for incubator temperature and humidity.
- 2015 – 2016 **B.Eng., Biomedical Engineering**, *Federal University of Rio Grande do Norte (UFRN)*, Natal, RN
 ○ Developed a myoelectric prosthesis using signal acquisition and processing in Python to drive actuators.
- 2012 – 2014 **B.Sc., Science and Technology**, *Federal University of Rio Grande do Norte (UFRN)*, Natal, RN

Scientific Production

Journal Articles

- 2021 ***Adaptive Algorithms as Control Strategies of Smart Upper Limb Orthosis: A Protocol for a Systematic Scoping Review***, *Frontiers in Neuroscience*, 15, p. 1
 Authors: Holanda, L. J.; Fernandes, A. P. M.; de Amorim, J. A.; Matias, A. M.; Nunes Netto, S. P.; Nagem, D. A. P.; Valentim, R. A. M.; Morya, E.; Lindquist, A. R.
- 2021 ***Development of a Low-Cost EEG-Controlled Hand Exoskeleton 3D Printed on Textiles***, *Frontiers in Neuroscience*, 15, pp. 1–13
 Authors: Araujo, R. S.; Silva, C. R.; Netto, S. P. N.; Morya, E.; Brasil, F. L.

Conference Presentations

- 2025 ***HeartSignal: Portable Device for Monitoring Physiological Parameters in Preclinical Models***, *Congress (Presentation)*, Brazil
 Authors: Silva Junior, A. C. V.; Figueiredo, E. M. S.; Araujo, M. C. C.; Gadelha, M. L. S.; Nunes Netto, S. P.; Gonzalez, M. C.; Radiske, A. Format: Oral Presentation
- 2025 ***Development of a Digital Game for Pediatric Respiratory Rehabilitation Using Unity and Arduino***, *Congress (Presentation)*, Brazil
 Authors: Souza, Y. S.; Medeiros, F. A.; Emiliavaca, A.; Barbosa, A. F.; Nunes Netto, S. P. Format: Oral Presentation
- 2022 ***Comparison of Motor Imagery Classification Models for Implementation of Brain-Machine Interfaces***, *Conference Presentation*,
 Authors: Yonamine, S.; Spinelli, B. G.; Nunes Netto, S. P.; Morya, E. Format: Oral Presentation
- 2019 ***Towards a Roadmap for Machine Learning and EEG-Based Brain-Computer Interface***, *Conference/Workshop*,
 Authors: Nobrega, T.; Nunes Netto, S. P.; Araujo, R. S.; Martins, A.; Morya, E. Format: Poster/Other

Skills

Data	Python; SQL; Power BI; Statistics & Machine Learning; Data Modeling; Dashboards/BI
Biomedical	Biological Signal Processing; Clinical Engineering; Assistive Technologies
Other	Version Control (Git/GitHub); Experimental Design; Communication with stakeholders

Certifications & Awards

Certifications	Git & GitHub (version control); Power BI; Python for Data Science; Huawei Certified in Artificial Intelligence (expired)
Honors	Best Oral Presentation — III International ELA Symposium; Best Scientific Paper — 8th Liga Contra o Câncer Congress

Languages

Portuguese	Native/Bilingual
English	Full Professional
Spanish	Limited Working